THE SCIENCES IN AMERICA.

WORK OF THE NATIONAL ACADEMY.

THE USE OF THE PHOTOGRAPHIC TELESCOPE-CON-DENSERS FOR CURRENTS OF HIGH POTENTIAL-AN INGENIOUS DEVICE FOR MARINE EXPLORA-TIONS-AN EXPINCT REPTILE WITH AN ANTERIOR AND POSTERIOR BRAIN.

Papers read before the National Academy Sciences yesterday were by Professors Henry Draper, George F. Barker, C. S. Peirce, Alexander Agassiz, and O. C. Marsh. Professor Draper presented observations on some highly successful attempts at taking photographs of the nebula in Orion, and Professor Agassiz explained a new means invented and used by Lieutenant-Commander Sigsbee, of the steamer Blake, for determining at what depths pelagic fauna cease to be found alive. Professor Marsh announced the discovery of a curious extinct reptile that was apparently furnished with a posterior brain cavity many times larger than its normal brain box. The announcment of deaths of members of the Academy closed the session and the tall meeting.

SESSION OF THE LAST DAY. The session was opened by Professor Heary Draper with a paper "On Photographing the Nebula in After distributing copies of photographs

obtained by him. Professor Draper said:

The gaseous bebute are bedies of interest because they may be regarded as representing an early stage the geness of saidhar or soine systems. Matter appear to exist in them in a simple form, as indicated by the simple spectrum of three or four times. It is desirably therefore, to ascertain what changes occur in the remain, and determine, if rossible, the laws regulating their internal movements. Drawings by hand have been made of some of the bedrifte, and especially of the rost in Ocion, for upwards by hand have been made of some of the bedrifte, and expectating that drawings are open to the objection that fancy or bins may distribute the dependent of the continuous and the rosult, and to compare the drawing of one minimized in the continuous of the continuous stages of these bodies are very faint, and of contra, owing to the cirit's medion are other consecutive man and to be at the processor of special construction. All the processors in the ciriters medion are other consecutive for the contraction, and it must be riven by clockword with the greatest precision. All the conditions are those solutions, and it must be reconstitution, and it must be reconstitution, and it must be reconstitution. obtained by him, Professor Draper said:

The means I have used to contain the merrica now precarred to he Academ are as follows: A freque achiemate obterive at 11 inches angiture made by
mate A sons recording to the planed Mr. Rucherford,
or correcting the rive especially as partegraphy. This
recorded in moduled on an equatorial stand and driven
by a clock that I made mysel. The partegraphy plates
re becommodatine and are about communes as
emittive as the wet coloridon formally employed.
As to the partner last if it will be observed in the conicy
more year han the nebma is very desinct in its bright
actions. The stars of the Trapez in and some others
from creatly over exposed had under the magnifying
ower employed they assume a large size, partly from
timespheric tremor and partly from other causes. It is
accorded that much more of the nebula will be obtained
a picture taken in the creat where weather. First
dictorraph was made at the end of Sentember when
here was some fog in the art; but nevertheless, the
engral shows truces of the ourlying streamers seen to
the drawings of once conceivers. A series of phototrapis taken it various times of the winter senson and
in different years will give us the means of determining
title some precision what conceivers, if any, are taking
stree in this body.

Professor George F. Barker presented to the Academy a paper on "Condensers of High Po-

creasing electrical quantity without increasing electrical potential. The bottle of electrified water of Canens, afterwards the Leyden jar, was developed sheet of glass coated on each side with tin foil as its simplest form. In late years condensers had been used to equalize currents. The speaker con-

been used to equalize currents. The speaker continued as follows:

Was cable telegraphy was diveloped, the static charge was found to occasion serious incovenience to working. For the purpose of measuring this, condensers of above capacity were manufactured. Two points are of unportance in the constanction of condensors: 1. Their maintained process in the condensors of above capacity were manufactured. Two points are of above capacity were manufactured. Two points are of above capacity were manufactured. Two points are of most first a approximately shown by the length of time they will not their course. 2. Their resistance to performing, measured by the difference of pointain required to mental the insulation. Ordinary condensors, which consist of sheets of time for maintain difference of pointain required to mental the insulation. Ordinary condensors, which consist of sheets of time for maintain difference of pointain required to mental the maintain of the condensor made by Elitot fireference of conditions. The insulation resistance of an underground cable about a year go, a mide condensor, made by Elitot fireflines and the markets showed that inher potential disabilities that they should the makers showed that inher potential disabilities that they should the conditions of the condensor was constructed, insulation of collections of

quirement.

There is no doubt that this form of condenser will replace entirely the L-videngar for charges of high potential. It is compact and always clean; and it has the decided advantage that in case of its perforation it may be repaired by warming the composition. The perforations are filled up by the emi-melted mass. The production of such a condenser seems to farnish a new and ready method for determing the electro-motive force of magnetic machines—a method more convenient than most of the methods now in use.

ELLIPTICITY OF THE EARTH.

Professor Langley read a paper by C. S. Pierce on the ellipticity of the earth as deduced from pendulum experiments. This paper, presented by request of the Superintendent of the Coast Survey, contained a mathematical discussion of the effects of variations in the attraction of the earth, which have been recently found by the Indian survey and by others to cause an effect similar in kind

and by others to cause an effect similar in kind to that which would be due to a diminished density of the earth's crust beneath the stations. These facts are discussed by C. S. Pierce, to whom the survey has intrusted the difficult task of determining from pendulum experiments the value of the constant of gravity, and the consequent variations in the form of the terrestrial eclipsoid. The paper shows that the received formula for determining the attraction of the earth beneath pendulum stations must receive important modifications. The following is an extract about island stations:

On the whole then we may roughly take the excess of

On the whole then we may roughly take the excess of gravity on the island to what it would be if the island was built up of extra matter, having the density of water; and then, when we take into account the attraction of the ocean itself, we may say that the excessive gravity on an island will be about equal to what would be preduced by an ocean, having the general depth of the ocean ead, or rich on the land and extending over the space occapied by the island.

The paper is illustrated by typical outlinessketches of the occasi's contour through the islands of Fernando di Noromba and St. Paul's Island, and also by various tables comparing the residuals found by Mr. Pierce with those of General Sabine. The conclusion gave the ellipticity of the earth as

About logs.

The paper was discussed by Professor Peters, who spoke of the value of pendulum experiments, but doubted the expediency of changing Bessel's value of the elimiteity. Professor Agass z. spoke of its bearing on geological theories, and Professor Langley quoted some recent remarks made in the French Academy of Sciences apon the importance of this part of the work of the United States Coast Survey. Professor Langley also spoke of the success with Professor Langley also spoke of the success with which these difficult and de leate investigations had been managed by Mr. Pierce, to whom they had been entrusted.

ANIMAL LIFE IN DEEP WATER.

Professor Agassiz described the gravitating trap, devised by Lieutenant-Commander Sigsbee, to ascertain the depth to which the animal fauna of the ocean descend. The speaker had always doubted the existence of animal life at great depths, and was the existence of animal life at great depths, and was confirmed in his belief by the fact that, whether dredging in lifty or 2.000 fathoms of water, he giways brought to the surface the same species of animals. To secure water from different depths, Lieutenant Commander Sigsbee constructed cylinders with traps, which could be opened from on board the vessel by lines, and which closed with the pressure of the surrounding water as soon as filled. They were found to sink 50 fathoms in 45 secunds. At the depth of 50 fathoms the trap brought to the surface the animals that usually float on the surface. At the depth of from 50 to 100 fathoms the number of animals decreased and only five species of pelagi were found, while seventeen species

had been discovered at the former depth. Using every possible precaution the apparatus was next sunk in from 100 to 150 fathoms of water, but no animal life was found. The water was perfectly clear. In conclusion, Professor Agassz stated that the dead bodies of pelagi required from three to four days to sink in 1,000 fathoms of water. water.

AN EXTINCT REPTILE WITH TWO BRAINS. Professor O. C. Marsh presented the final paper of this meeting of the Academy, on "Dimensions of the Brain and Spinal Cord in some Extinct Reptiles.

the Brain and Spinal Cord in some Extinct Reptiles. He said, in substance:

Five years ago, before the Academy, I presented some observations on the size of the brain in extinct maintails, and showed that the more ancient the mammals the smaller the brain; that there had been a cradual increase in the brain; that there had been a cradual increase in the brain, and that the growth had been mainly in the cerebral or intellectual particle of the brain. Since that time I have further observed this law of growth. At the April meeting I made some observations on the size of the brains in certain birds and reptiles showing that these groups follow the same law. I have mere recentify examined skeletons of a mammeth restriction of the Rocky Mountains, which I have named the sugassiums. With a body as large as that of an allicator, one reptile had a brain cavity to larger than that of a doc. Further examination disclosed at the sacrum a great vanited chamber than the regular brain. I examined a number of these skeletons and found the same thing in all of them. As the young animal has a brain proportionately larger fram that of the grown reptile. There has not head of the rown animal, so In Los skeletons of the young animal has a brain proportionately larger fram in the grown reptile. There has not been found anything anadogous in the land vertebrates. The point suggested by this disservery is in support of the new idea regarding the brain in articular that the whole mercons system, and not the brain alone, may be the seat of the mind. He said, in substance:

Professor Road asked Professor Marsh if he had any explanation to make of the strange arrangement he had described. Professor March said that at present he had no answer to the question.

At the suggestion of Professor Gibbs thanks were voted to President Barnard and the professors of Columbia College for their bospitable treatment of the Academy.

The meeting was concluded with the announce-ment of the deaths of members of the Academy, as

Count L. F. Perisins died at Cambridge, Mass., in July. Frofessor Armanz will comment upon his life. S. S. Haldeman, of Chicksies, Peans, died in Sen-tember. John L. La Conte will prepare an obsturry

Horiesar Benjamin Pelice, who was one of the founders of the Academy, but who has not of late been a member, died in October. Prodessor Marsh and that he could not suffer the occasion to recay without calling to mind the services of Professor

The meeting was then adjourned.

GENERAL WARREN REEXAMINED.

THE HEARING OF WITNESSES PRACTICALLY CONCLUB-FIRSTILL APPLICANT AGAIN ON THE STAND-

FRATURES OF THE ENGAGEMENT AT FIVE FOURS. There was an annual number of specializes at the Warren Court of Inquiry yesterday. The session was intresting from the fact that the heating of witnesses was practically completed, and because General Warren was recalled to the stand. After the reading of the record leading it is expected that the Court will adjourn until after the holidays to afford an opportunity for the completion of the printed record, before the arguments of the counsel are presented.

Fifth Corps was driven back on March 31 was erroneous. With reference to the operations on April 1, he said:

When I received my order, I went to confer with General Sheridan. My conversation with him was very inth and I thought I completely understood what was to be done. I do not think I had any conversation with General Sheridan again until I presented a sasteth of the myement to be made so see if it were carried. This conversation took place where the troops were formed. While the formation was being made I was engaged in carefully laying out the ground, and in sending instructions wherever I thought they were required. General Sheridan old not make a sketch in the sand in my presence. He joines me, I think, when General Crawford made his formation. My position was a little in the rent of Crawford's division before the movement began, and my staff olicers, division and brigade commanders, were comming and roung all the time; General Sheridan was not far away, I think, on the other side of the road. I did not notice any substantial break in the troops as they moved down to where the lines were formed.

When General Crawford struck the cake of the timber north of the White Oak Road I was not far away. I was with General Ayres's command when he canned its front, and then I went to give instructions to the left brigade of Crawford's division to change front to ward the west. Before moving cut I requested that General Sheridan's escort, which was in front of General Ayres's command when he canned its front, and then I went to give instructions to the left brigade of Crawford's division to change front to ward the west. Before moving cut I requested that General Sheridan's escort, which was in front of General Ayres's division to change front to ward the west. Before moving cut I requested hat General Sheridan's escort, which was in front of General Ayres's command when he canned in a shetch of the formation of the lines, altough I was morthed to be a fit of the change of the carried of the formation of the lines

he did express anxiety at the troops going so far to the right.

In answer to Major Gardner, General Warren said that he made several copies of the diagram and that he thought he gave instructions to several breade officers. While the movement was being made he was stationed in an open field, north of the White Oak road and east of the Sidner field; he remained there instead of going with any particular division in order that his staff officers, who were conveying his orders, might easily find him. When Ayres turned his front, he left his position in this field and went to the left brigade of Crawford's division, and directed that the front of that division should be changed.

Major Gardner read extracts from a pamphlet written by General Warren in 1805 on the battle of Five Forks, and asked the witness it some of the statements were not in contradiction to his testigony before the Court. General Warren replied that in writing the pamphlet he accepted as true the official reports of officers in command, and that the movements were not as well known then as they were now. He directed the movements of all his divisions, but it was impossible to see them in action. A portion of General Custer's command, he continued, was south of him when he was in the Gilliam field; and while there he received a message from General Custer. As Crawford moved up in the advance there appeared to be enough fire in his front to indicate that the enemy was in safficent force to form a line of battle. It was understood that General McKenzie was to protect the right flank of the mitanity.

The Court adjoured until to-day at 11 a. m.

LOCAL MISCELLANY.

THE CONTROLLER ATTACKS THE MAYOR. SHAEP WORDS IN THE BOARD OF ESTIMATE AND

APPORTIO MENT. Controller Kelly was evidently in ill-humor when he went to the meeting of the Board of Estimate and Apportionment yesterday. The Board had not been in session ten minutes before he quarrelled with the Mayor. Mr. Kelly called up from the table a resolution providing for the transfer from the appropriations for the Police Department of \$12,500 in excess of the amounts required for that department to increase insufficient appropriations for Aldermen's salaries, salaries of clerks in the Finance Department, and for cleaning markets.

The Mayor objected to this proposition. He thought each of the departments should keep its expenditures within the appropriations originally made.

This was all that seemed to be needed to arouse the Controller Kelly was evidently in ill-humor when

expenditures within the appropriations originally made.
This was all that seemed to be needed to arouse the Controller. He glanced from the corner of his eyes at the Mayor and savagely, but in low tones, muttered that the Mayor was inconsistent. Mr. Cooper, a year ago, he said, had voted for just such a transfer to the Police Department when the Mayor's "pet," Mr. MacLenn, was in the Police Board. The attack of the Controller was so sudden and unexpected that it confused the Mayor. He said, however, somewhat hestatingly, that he had only opposed the transfers because he considered them unnecessary. The Controller made no attempt to control his temper or to be civil in answering.

"You have a bitter hated of the Finance Department, and because of your maliciousness your opinion is of no account."

The Mayor had recovered his self-possession, and although he flushed at these words, he very coolly began.

Figure 11 the Controller choeses to make insulting re-The Controller doesn't make insulting remarks; the Controller noesh t make insuling remarks; the Controller tells the truta," exclaimed Mr. Kelly. The Mayor's only response to this was the state-ment that the appropriation for the Finance Depart-ment was sufficient to pay all the salaries of the

ways to be running in one direction—the reduction of clerks pay. He did not want the poor clerks in the Finance Department to get the pay they were

The meeting was concluded with the announcement of the deaths of members of the Academy, as follows:

J. Homer Lane, of Washington, died in May.

Profess of Hilgard has been appointed to prepare a bloggraphical notice, to be read at the April meeting.

Count L. F. Portnine died at Cambridge, Mays. in Lay. Professor Against will comment upon his life.

Lay. Professor Against will comment upon his life.

"Do you ever visit the markets?" asked the Con-treller.
"I have bearned how they were cleaned from good

"It we bearied how they were cleaned from good authorny," quietly answered the Mayor.

"I must my that you are a good authority," was the final rap of the Controller.

The other business of the Board was of a routine character. The issue of \$100,000 of book Department bonds was authorized; the sum of \$3,003 14 was varied to the Ladies' Deborah Mu sery and Child's Protectory. A communication from the Board of Readth, recommending the abolitron of the shantles of squatters at \$ix(v-seventh-st, and Thirdaye,, was referred to the Controller.

LAYING NEW OCEAN CABLES.

A published disputes from London announced yesterday that the American Union Telegraph Company had ordered the construction of two Atlantic cables. A promisent officer of the telegraph company decied that the negotiations had reached that point. He said that inquiries had been made in regard to the cost of cables and as to the time necessary for their construction. The company had not yet decided upon the matter.

When the new French cable was haid last spring the American Union Telegraph Company made a

die reading of the record to-day it is expected that the Court will adjourn until after the holidays, to afferd an expectancy for the completion of the prantit record, before the arguments of the counsel at 1. It. Blackmore, who was a lieutenant in the conference of the counsel at 1. It. Blackmore, who was a lieutenant in the counsel at 1. It. Blackmore, who was a lieutenant in the counsel at 1. It. Blackmore, who was a lieutenant in the counsel at 1. It. Blackmore, who was a lieutenant in the counsel at 1. It. Blackmore, who was a lieutenant in the works in the extreme left of the Confeier rate line, and consisted of about 1,000 men. He also described the status of the Confeier rate line, and consisted of about 1,000 men. He also described the received by Major Gardner the witness and the extreme left of free before the infrainty and anomaly after the carrying of the return. In his second was tought in the name of an officer of the telegraph company. After the calle was bushed in the leading of the return of the works, and attimated that it was the Fifth Corps that drove them from their possition.

General Warren, who was examined at the height of the confeier the matter of the received with the confeience of the relation of the works. And attimated that it was the Fifth Corps that drove them from their possition.

General Warren, who was examined at the height of the confeience of the relation of the witness and that as ucarly as he could remember General Warren deviced by Mr. Strickney, He and that as ucarly as he could remember General Warren deviced by the confeience of the received by Colonel Locke dated at 10,30 did not have the indoresment of General March of the company of the refused to the confeience of the received were the run was not possible to the confeience of the received were the run was not possible to the confeience of the received were the run was not possible to the confeience of the received were the run was not possible to the confeience of the received were the run was not possible to

HELL GATE PILOTS UNNECESSARY.

Ship-owners and sup-masters complain of the hardships imposed upon them by the Heil Gate pilots, and yesterday complaints were filed with the secretary of the Vessel-Owners' Association. It is also said that vessels belonging to Suffolk County are charged pilotage, in violation of an agreement made February 23, 1871, by which, in consideration of the fact that the vessel-owners in Suffolk County should not oppose a bill before the Legislature to increase the rates of pilotage 50 per cent, the Heil Gate pilots were to refrain from imposing any additional or half-pilotage upon them. The bull was passed. Its provisions expired in 1876, when the rates of 1847 again came in force. The pilotage is compulsory, with the exception of licensed vessels of over 100 ions pay half rates if they do not employ pilots; all others (certain consting passenger steamers excepted) full rates.

The passage through Heil Gate generally requires the use of a steam tag. The pilots of the tughouts are experts, thus rendering the employment of the licensed pilots unnecessary; consequently they are selden employed, and when they bound a vessel.

the enset pliots unnecessary; consequently they are seldom employed, and when they board a vessel from their rowboars they are well satisfied to ratire with an order for half-pilotage. It is purposed by the shipping community to make a united effort at Albany this winter to have the compulsory clause

POLICE TELEGRAPH WORK.

At the meeting of the Police Board vosterday the treasurer was directed to furnish the information as to the expenses and receipts of the Street-Cleaning Bureau required by the Senate Committee, superintendent Crowley reported that no reduction could be made in the force employed in the telegraph service of the Department. His report showed that the six oper toos in the telegraph office at Headquarters receive and send on an average 12,000 dispatiches a month, that there are seventy-tye miles of wire and seventy-one batteries, and tive miles of wire and seventy-one batteries, and that besides the police stations, forty-three other that besides the police stations, forly-unreconact points in the city and twelve arsenals and military he adquarters are connected with the Central Office by wire. Commissioners Mason and Nichols were appointed to lock into the affairs of the service and report upon its efficiency. On the motion of Com-missioner Mason a committee was also appointed to draft raies to govern the proceedings of the Board

A WOMAN'S PIOUS BEQUESTS.

By the will of Mrs. Altana Wescott, the widow of the late Samuel Wescott, ex-Mayor of Jersey City, who died recently, \$10,000 is given to the rector, wardens and vestrymen of the Episcopal Church at Athens, N. Y.; \$5,000 each to the Children's Home, the Home for Aged Women, and the Sisters of the Poor of St. Francis and St. Mark's Episcopal Church, all of Jersey City; and \$10,000 each to Jaceb Weart and ex-Congressman Hardenbergh, the executors. To Mr. Hardenbergh is also left the painting, "The Dream of Arcadia," which is valued at \$10,000. The library and the remainder of the estate, with the exception of some minor bequests, goes to the Hudson County Episcopai Church Hossital and Home. The entire estate is valued at \$100,000.

SURVEYING THE CENTRAL PARK SITE. The committee appointed by the Executive Committee of the World's Fair to wait upon the Park Commissioners and to inform them that Central Park has been selected as the site of the proposed Fair has as yet taken no action in the matter. It is stated that engineers are making a servey of the part of the Park to be asked for, and that when the result of their labor is reported, the committee will wait upon the Park Commissioners and state at length its reasons for selecting Central Park as the site.

FRESH MEAT FOR EUROPB.

The steamship City of London, which will sail for London to-day, will carry, in addition to other cargo, 393 five cattle. The Canada, for Liverpool, will carry 210 live cattle; the Abchoria, for Glaszow, 184 cattle, 1,280 quarters of fresh beef and 200 carcases of mutton; the Australia, for London, 640 quarters of beef and 150 carcases of mutton; the Cellic, for Liverpool, 600 quarters of beef and 100 carcases. Celtic for Liverpool, 600 quarters of beef and 100 carcases of mutton.

SEARCHING FOR A MURDELER.

It was learned yesterday at Police Headquarters that the detectives are leoking for Andrew J. Gillen, the murderer of Mary Sigerson, in Brooklyn. John Sigerson the murdered gui's brother, visited the Central Office in the afternoon. It was learned that the

brother had been one of a party of three men who during Thursday night watched a house in Brooklyn where the murderer was thought to be hiding, and where he is still believed to be. It is said that the stories about his having left the neighborhood and gone to another State are circulated for the purpose of causing a sinse of security in the murderer, so that he will come out of his hiding place.

HOME NEWS.

PROMINENT ARRIVALS.

NEW-YORK CITY.

The boys have began to sharpen their skates. Broadway is now illuminated by numerous elec-tric lights.

The sunny side of the street was preferred by pedestrians yesterday. New window lambrequins are heavily trimmed with wide borders of plush.

Icides were pendant from the drinking fountains in the parks vesterday morning.

The Junior class of the University of the City of New York have formed a foot bail club. Five stories of the building on the site of the old Olympic Theatre have been constructed.

The Yorkvilte and Harlem omnibuses which run on the beglevards look like relics of a prehistoric

The tracks of the proposed Forty-second-st. Cross Town read, lying east of Seventh-ave., have been removed.

the not baths from the engines more endurable as the weather grows colder.

Complaints are frequent of idle and victors boys who infest the Western Boulevard and amoss themselves by breaking the lamps. The new bon-bon boxes are in quaint designs. Some

of them are shaped like champagne corks, others like speci of thread and small pineushions. The sadewalk around Washington Market is block-aded with large buxes and burrels filled with tur-keys and other fewls for Thankspoving dinners. The American Horse Exchange building, bounded y Broadway, Seventh-ave., Fifteelit and Fifty-ist-its., has already two stories up, and is rapidly

either black or cofored, are worn with two skirs of solid black silk, and are handsome either for hous or street wear.

why comber they the ground?

For more than a year West istly seventh-st, has been fined with continuous piles of paying-stones, although the street is one of the best pavel in the

MAPAME GENERAL ACT A CHURCH PAIR.

Madame Etelka Gerster has accepted an invitation to visu the fair of St. Francis Xavier Church,
in West Stxteenth st., this evening, and will preaide at the Fioral Temple. SUPPOSED MAD DOG KILLED.

A dog that exhibited symptoms of madness bit the six-years-old daughter of Charles Councit, in the face, Taursday, in Spayten Dayvil. The dog was pursued to Kingsbridge and killed by Thomas Raker.

Nor to be taken at his word.

A Duane-st sure bears the following inscription:

"The poorest printer in the world. No attention eleatever paid to orders. Seventeen small cards for \$1.000 in gold—other work in proportion. 'How this world is given to lying.'"

THEOWN FROM A CARRIAGE AND EILLED.

A coroner's pury found a verdict of "death by accident," yesterday, at the inquest on F. S. Fairchild, of Dobb's Ferry, general freight agent of the Hadson River Railroad, who was killed by being thrown from a carriage October 9, at Thirty-seventh-st, and Eleventh-ave.

The poince were informed yesterday that a man who represented himself as an agent of the Health Bostal and signed himself "S. Stephens, Inspector of Vitals," was swindling East side greeers and liquor-dealers by proteining to test their wates and collecting fees for his services.

George W. Cregier, secretary of the Board of Police Justices, reports the following fines received from the various police courts in October: Special Sessions, \$2,021; Tombs, \$481; Jefferson Market, \$724; Essex Market, \$292; Fifty-seventh Street, \$430; Harlem, \$97; total, \$4,045.

\$430; Harlem, \$07; total, \$4,045.

CONVENTION OF DELTA PHI.

After granting chapters at Harvard, Pennsylvania, and Johns Hockins Universities, the Convention of the Delta Phi Codege Fraternity adjourned early last evening from the rooms of the Delta Chapter to Delmonico's. There the routine of business gave place to a dinner, motions to toasts, heated discussions to warm fraternal speeches. Alexander R. Thompson presided. Among the other prominent members present were, S. S. Cox, Dr. C. R. Aguew, A. J. Rhinelander, General Sharpe. Chancellor Crosby, and Edgar Fawcett.

BROOKLYN.

A this coating of ice formed on the lebes in Present.

A thin coating of ice formed on the lakes in Pros-pect Park Thursday might. Lovers of skating are expecting an early opening this season. After Gertrude Hummurey has been granted per-

After Gertrade Fundarey has been granted permission in the County Court to change her surname to Parlbrick, the name of her stepfather.

1. Pr. Herbeit Fearn, of No. 196 Clermont-ave,, was fined \$20 in the City Hail Police Court yesterday, for faring to report a case of scarlarina which came under his care to the Board of Health.

The Swiss in Brooklyn celebrated the 573d anniversary of the founding of the Republic of Switzerland Thursday evening in Germania Hall. Ferdinand Meyer made the principal address.

nand Meyer made the principal address.

The coroner's jury which investigated the cause of the death of a newborn male child, found in a cistere, at No. 300 Ellery-st., November 5, found that death was caused by asphyxia at the hands of his mother, Miss Margaret McDonough, by being thrown in the cistern. Miss Carrie Kernstler was declared to be an accessory to the act. The young women, neither of whom is over twenty years, were held to await the action of the Grand Jury. JERSEY CITY.

The water main at the head of Wayne-at, bursted last evening and filled the bosoment of the house of John C. Quick, badly injuring his furniture.

Louis Wieht, of No. 57 Montrose-ave., a nurse at the county farm at Soake Hill, was struck by a train on the New-York. Like Eire and Western Railroad, Thursday evening, while walking on the track, and was instantly killed.

At the annual meeting of the Hudson County Bible Society. Thursday evening, B. F. Randolph was elected president; Presiding Elder Ellison and the Rev. Dr. Mahon, vice-presidents; the Rev.Will-iam Verrinder secretary; and Congressman Hardenbergh, treasurer.

NEWARK.

An inquest was begun vesterday in the case of Eugene Villiers, who died Wednesday from injuries received in an explosion which occurred at the factory of the Lignoid Fancy Artic Company hast Saturday. The testimony showed that the firm used a machine called a power accumulator, the explosion of which caused the death of Mr. Villiers, and that the machine was of worth ess material. It was warranted to stand a pressure of 6,000 pounds to the square inch, and bursted with 2,300 pounds pressure. It was known that the machine was detective and had been patched. The iron of the machine tree in the machine was detective and had been patched. The iron of the machine was detective and had been patched. The iron of the machine was depressure. It was known that the machine was de-fective and had been patched. The iron of the ma-chine was, as a machines expressed it, very poor and very dirty; he never saw poorer iron. The first time the machine was put up the tube leaked. NEW-JERSEY.

PATERSON —Samuel J. David, who is in the Pas-saie County Jail on a charge of murdering his wife-is completely broken down by nervous excitement and the loss of stimulants. Late Thursday hight he was very ill and Dr. Blundell was summoned to attend him. LONG ISLAND.

WOODBURY.—While a party of Germans from New-York was gunning in the woods near Wood-bury Friday morning, one of the number, Charles Meyers, was shot and seriously injured by the pre-mature discharge or his gun while in the act of clumbing a fence. He shapped, and in falling tha gun went off, a portion of the charge entering his eight side. He was taken back to the city. HUDSON RIVER TOWNS.

Sing Sing.—Isaac Kiimartin, a boy eleven years of age, whose parents live in Sing Sing, was struck Thursday afternoon by a freight train bound south, and instantly killed. In company with some other boys be had been amusing binself by stealing rides on the trains, and in this instance had missed his hold in getting on. hold in getting on.

> MARINE INTELLIGENCE MINIATURE ALMANAC.

Sun rises.... 6-53 | Sun sais.... 4-33 | Clock slow.14m.02a Moon ri es.... 7-46 | Moor souths. 2-25 | Moon's aço, daya.13 Sandy Hook., 9:18 | Gov. Island., 10:27 | Hell Gate Sandy Hoos. 10:10 | Gov. Island. 10:49 | Hell Gate.... 0:16

> SHIP NEWS. PORT OF NEW YORK NOV. 19, 1880.
> ARRIVED.

ARRIVED.

Str Belgeniand (Beigl, Jackson Antwerp Nov 6, with indse and massengers to Peter Wright & Sons.

Str Tyrnan (Br), Ketabelt, Genoa Oct 19, Leghorn 21, Naples 25, Olbra tar 30 and Galix Nov 2, with index and passengers to Henderson Bros.

Str Washington (Hal), Cardelli, Catania Oct 23, Messina 2 6

Melazzo 27, Palermo 30 and Gibraltar Nov 5, with mass and passengers to Phelps Bros & Co-str Pelicia (Gert, Muller, Laguavra Nov 4, Perto Cabello 6 and Curacao 9, with mass and 9 passengers to Dallett, Boul-

on & Co.

SIT Raielgb. Price. Wilmington. NC, 3 days, with naval
string to Blossoin, Hayne & Co. visual to George F Plymer.
Sinp Chrises & Carver of earmort. Drew Loils 1.0 days,
with sugar to & D Merch & Vessel to arver & Barnes,
Hark Estrella of Livery to A. Ameor, Estat, Chili, 190 days,
via Hampton Roads, with nitrate of soda to Wm R Grace &
via Hampton Roads, with nitrate of soda to Wm R Grace &

via Hampion Boods, will nitrate of sods to Win R Grace & Co, vessel to master.

Rark Sir Herbert Maxwell of Artirosani, Morray, Rosario 65 days, with well to Baring Bros & Co: vessel to James W Elwell & Co.

Hark W E Heard (Br), Robbins, Perth Amboy, in ballast to James W Elwell & Co.

Bark Farewell (Ger), Neumann, Hamburg 31 days, with solt and empty barrels to order, vessel to Funch, Edye & Co.

Schr Win Houglass, McLodoc, Haracon 12 days, with fruit to Gomez & Pearcalt, vessel to LC wenders.

Schr H S Boynton, Snow, Rockland with lime to Havrland & Pressey.

Presser.
Schr Afriana, Sloman, Gardiner, with lumber to order.
Schr Hichmond, Hail, Rockband, with hose to J it Pressn.
Schr Mary E Ausd o, Bager. Kennelsec River. With less t

Kuleacerbocker Ice Co. Schr Edl. May Allen, Vinalhaven, with granite to order. Schr Acia Allan Dudley, Windsor, NS, 10 days, with plas-ter to order: vassel to Jed Frye & Co. er to order, vessel to Jed Frye & Co.

(F) The following vessel arrived the 18th inst, too late for neerlion in shin howe!

Str Old Dominion, Walker, Richmond, City Point and Norelk, with mole and passenguer to Old Dominion Se Co.

CLEARED.

CLEARED.

CLEARED.

Clearer Australia (ir., Ward London, Henderson Bross, Try of London (Re., Wilson, London, W.H. Thompson & Co., acada (iir.), Griffith, London, F.W.J. Hurst, Cellie (E., Gesadel, Liverpool vr., Queenstowa, R.J. Cartis, Gheello (Re.), Gesadel, Liverpool vr., Queenstowa, R.J. Cartis, Gheello (Re.), Gistello (Re.), Henderson Bross, Sangaron (R.), Redderson, Sangarow, Henderson Bross, State of Abahama (R.), Moole, Selfast, Ansim fladdwin & Ce. St (cortectiff), Pesiers, Gayre, Funch, Edye & Co. Richmond, Stevens, West Font, La Old Dominson & Ce. Western Feyus, Hines, Fort Reyal, Carkson Ville and Fernandina, C.H. Mallory & Co., Cry of Austries, Nicketson, Savianush, Ges Yan e. Mary Letham (Brosson, Promoes), Fanny Cadwalader, Clark, Eastmore, J. Stroms. CLEARED.

SUNSET-WIND-At Sandy Hook, light, SE: hazy-

ms. Hermos (Nor), Panisen, Cork or Falmonth for orders, bam, Pickering & Co. Bernara Carl (Ger), Niemann Lu-, Gor, Funch. Bave & Co. Norma (Nor), Mathiesen, Borton, Bentsun, Pickering & Co. Inglessled (Br.), Hoydan, h. Scot. A.T. Hener, Premany (Br.), Reid, Port Natal, ca. Marchal & Co. Bronning Louise (Nor), Olsen, Ant. of Tobus & Co. Lukhajaf (Nor), Nielsen, Coc. o. Faith for orders, Funch, Edya & Co. Tjomo (Nor). Eacho. Tohias & Co., Mary Knowlton, McKie, Greytown, Nie, B F Metcal Fliche (19) Decker, Bridgetown Bar, L W & P Arm Jane Adeline, Liebrep, Santos, Brazil, W H Crossman

& Bro.

Schra Wanderer, Nelson, Providence, R. E. Berte, Julia A. Ward, Stevena, Relevesten, H. W. Lond, & Co. Atana, Ret. Briy, St. Jehn, N.B. A. T. Henev, Charles E. Serra, Turner, Boxing, Jed Frye, & t. a. Calina Bri, Nutlai, Hullian, A. T. Heney, A. Heaton, Roycer, Buenos, tyres, John Norton & Sons, Louisa, A. Arkons, Monte Larian, San Bonlian, S. Mushelina, Rox McKelridge, Fosher, Kingston, R. McChristiand, J. P. Auger, Jorian Charlestown, Nevis, Wil, F. G. Charlestown, Nevis, Wil, F. G. Charlestown, Nevis, Wil, F. G. Charlestown, Sevis, Wil, F. G. Charlestown, Nevis, Wil, P. G. Charlestown, Nevis, Wil, Wil, P. G. Charlestown, Nevis, Wil, Wil, P. G. Charlestown, Nevis, Wil, P. G. Charlestown, Nevis,

Strainanching Pointian. Capt S. Littaine, has arrived from true at Monrie Pointian Prize Rapid. Johns p. of true at John for New York, which can nature on West up this morning in coming in will remain at dook. Review, New 14. The strained Bry which was ashore Newfourdand, Subbern takes onto dry dook here for research and thus beginned feel of her keed is good, and sho there begin here to be an about the stationard side. The effect here to be full to not described. It will take three others to be for its not described. It will take three others beginned. Strained S

POSTOV, Nov. 19.—Below str Saxon, Spow, Philadelphia, Chered, st. 2 nctinn, McKay, Livergeel, Print, and Print, McKay, Livergeel, Print, and Print, McKay, Livergeel, str. Roman, Crowell, Roston, Curharine Whitney, Harding, Providence, Santoe, Crocker, Pail Styer, Commencement, Vaukerk, New-York; Tarony, Pavil, de, Pottsylle, Pierce, Portsmouth, Chered, Str. Institute, Swing, Roston, Berks, Pendleton, de, Parmie, Grundey, New-York; Zeeland, Weyer, Antwerp, Acontice, Baron, Praythence.

hin.
Sailed, stra Wvomung, Blackstone, Horace.
Fourniss Mexicol. Nov. 19.—Passed in for Baltimore, str hancimore, Sibthorpe, Liverpon.
Chautierox, Nov. 19.—Arrived, stra G W Clyde, New-York; ORLEANS, Nov. 19. - Passes - Arrived, sirs Chaimette New York; Caribbean, Peters, Liverpool; Hudson

Cicared, str Ben Lomond, Rouen. For later Ship News, if any, see Fifth Page.

Clothes Wringers of all kinds repaired rouptly. Metropolitan MTg Co., 32 Cortlandist, N. Y.

IMPORTANT TESTIMONIAL.

SIERVILLE, Penn. Nov. 15, 1880.

Franchi, I must express my heartfelt thanks to you for what your rome lies have done for me. Last August, when in Boffulo, N. Y., I purchased one of your Liver law, we were rome month and am fully restored, to include I was very bad off; could searcely attend to the dult's of my office, and had trude everything for the liver complaint all to no surpose; but your Pab has made me healthy and ruggest; have gained in less over weavy opinies. Wishing you every ancesses, I remain your humble servant and well wisher. W. B. Siere, P. M.

Penals your himole servant and wen waster. W. A. Steen, M. M. Holman's Pans are sold by all first-class drugglets; price, 82. Heware of bouns and cheap indication pals. Each genuine Holman Pan bears the private revenue stamp of the cemenans. Buy some without R. Holman Pan Company, No. 03 William-st., New-York.

The progress of the age is well represented in the introduction of James Price Penaltha, for all cleansing purposes. Every family should test it.

The recent decisions in regard to the Page

The recent decisions in regard to the Pag ent have no effect whatever upon the business or present truments of the Holmos Burglar Alarm Telegraph Com-ly, 518 Broadway.

TO ENGINEERS & MANUFACTURERS Electric Lighting Proposals

THE EASTERN ELECTRIC MANUFACTURING COMPANY of Middlets was Combined proposals for the construction and delivery in working order of the following specified machiners or portions of the same.

10 dynamo electric machines absorbing 1,000 horse-power each

ich.
10 dynamo electric machines of 500 horse power each.
50 dynamo electric machines of 2.0 horse power each.
100 dynamo electric machines of 100 horse power each,
100 dynamo electric machines of 50 horse power each,
1,000 dynamo electric machines of 3 to 2) horse power each,
5,000 dynamo electric machines of 5 to 2) horse power each
Also seem engines of the most approved description additions.

follows:
10 of 1,000 borse-power each.
10 of 500 horse-power each.
500 of 30 borse-power each.
500 of 30 borse-power each.
250 000 glass globes.
250,000 sets of menal work.
100,000 brackets and chambeliers. 1, 2 and 3 arms each.
Also havirantic boston regulators as follows:
100,000 brackets and chambeliers. 1, 00 brackets and chambeliers.
10 brackets and chambeliers.
10 brackets and chambeliers.
11 and 3 arms each.
12 brackets and chambeliers.
13 brackets and chambeliers.
14 and 3 arms each.
15 brackets and chambeliers.
15 brackets and chambeliers.
16 brackets and chambeliers.
16 brackets and chambeliers.
17 brackets and chambeliers.
18 brackets.

Full particulars of above may be cleaned at the company's offices, 119 Main-st., Middleton, Conn., or 115 Broatway. ew York. Personal interview with engineers preferred to correspon-

Great Bargains

ENGLISH BODY BRUSSELS CARPETS

IN NOVEL AND CHOICE DESIGNS, AT LESS THAN COST OF IMPORTATION.

649, 651 AND 655 BROADWAY.

20 AND 22 JOHN STREET, Importers and Manufacturers of Artistic and Well-finished Fancy Goods of all kinds.

SCHUTLER, HARTLEY & GRAHAM, HALL, NICOLL & GRANBERY,

Have the richest line of Fancy Goods that has ever been imported to America by a wholesale house.

A specialty of the and costly Ornamental Goods.

WHITE'S PATENT LEVER TRUSS cures phlets free explaining everything. 61 Warren at.

DR. RADWAY'S THE GREAT BLOOD PURIFIER,

FOR THE CURE OF ALL CHRONIC BISEASES, SCROFULA OR SYPHILITIC, HEREDITARY OR CONTAGIOUS.

BE IT SEATED IN THE Lungs or Stomach, Skin or Bones, Flesh or nerve ORBUPTING THE SOLIDS AND VITIATING THE FLUIDS.

Chronic Rheumatism, Scrottia, Ginadular Swelling, Racking Dry Cough, Cancerous Affections, "yehilite Cempians, Bleeding of the Longs, Dyspepsia, Water Brash, Tie John Cux, White Swellings, Timors, Uleers, Selb and Higheraess, Mercuriai Docuses, Femaio Couplaints, Gout, Dr. 1997, Rickets Salt, Rheum, Brookints, Cous-mpton, Kroking, Bladder, Liver Complaints, &c. PRICE, \$1 FER BOTTING, Bladder, Liver Complaints, &c.

R.R.R.

Radway's Ready Relief.

THE CHEAPEST AND BEST MEDICINE FOR PAR.

ILL USE IN THE WORLD.

ONE TO CENT BOOTH'LE

WILL CURE MORS COMPLAINTS AND PREVENT
THE SYSTEM AGAINST SCHOOL ATTACKS OF EEL

DEMICS AND O'STAGIO'D DISASSES THAN ONE
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THE MORE AND ALL USE EXPENDED FOR OTHER MED.

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GAUSE, CALLEY TO NOS.—PAIN, FROM WHATEVER

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COURTS HOUSE TO ALL THONS.—PAIN, FROM WHATEVER

TO ALL USE A Where point or disconfort is oxyer fenced, or at

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Toothacke, Earache, New Youthers, or with Forms, Seals

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or Broaken with Stra OR Crimps or Sosems, the application
of RADWAY'S READY HILLIFE WILL CHE FOR UNITED THE PROPERTY.

DR. RADWAY & CO., 32 WARREN-ST N V.

BROUGHAMS SINGLE AND PAIR HORSE,

With Rubber-Cushioned Axles. AFTER THE BEST MODELS OF PARIS AND LONDON

BREWSTER & Co. Broadway, 47th and 48th Sts. ONLY PLACE of BUSINESS

JAMES McCREERY CLOTH DEPARTMENT.

THIS DEPARTMENT IS NOW ON THE SECOND SEAL SKIN CLOTHS,

> CLOAKINGS, LADIES' CLOTHS, IN ALL FASHIONABLE SHADES. PROM \$1 50 TO \$3 PER YARD.

WINTER HOSIERY

UNDERWEAR.

48 East 14th-st. 845 & 847 Broadway.

Unlike Pills and the usual Purguives, it is pleasant to take and cares Constitution. Billogsness. Hendsche and all disorders arising from an obstructed state of the

CROCKERY, CHINA, GLASS, COOKING UTENSILS. BRASS FIRE GOODS.

LEWIS&CONGER

NOS. 1,338 AND 1,340 BROADWAY. 1789. BACON PIANOS. 1880

FRANCIS BACON'S PIANO FACTORY, Successor to BACON & RAVEN, - BACON & RABE, 1473 and 1475 Broadway, near 42d at, N. V Reliable agencies desired in localities where none nowes. Catalogues by mail on application.

OTIS ELEVATORS.

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